Bladder tumors, *See under* Tumors.
Bladder, urinary, Diverticulosis of, E. J. Boardman (abstract), 366.
Blaine, Edward S., 207, 211-213, 355, 376.
Blaine, Edward S., Unusual foreign object in kidney (original paper), 207, 211-213. *See other references.*
Blakeslee, A. F., 259.
Blance, C., 499, 504.
Bliss, J. H., 449.
Blood, Substances circulating in, as cause of light dermatoses, W. Lipschitz (abstract), 368.
Blood vessels following roentgen irradiation, Further investigations regarding changes of functional stage of, N. W. Lazarew (abstract), 528.
Bloodgood, Joseph C., 448.
Bloom, A., 267.
Blumenfeldt, E., 61.
Boardman, E. J., 366.
Boardman, W. W., 271, 362, 363 (editorial).
Bockenheimer, P., 505.
Bohm (cited by R. Balli), 486.
Boit (cited by I. S. Hirsch), 505.
Bone, diseases of. *See* Osteitis fibrosa, Generalized.
Bone Sarcoma Registry, 528.
Book reviews, 81, 174, 260, 364, 452, 524.
Borak, J., 273.
Bordet, 61.
Bordier, H., 408.
Boruttau, H., 81.
Bourges (cited by I. S. Hirsch), 514, 515.
Bouwers, Albert, 166.
Bowel, small, Diverticula of, E. L. Jenkinson, 100.
Bowen, David R., 22, 308.
Bowing, Harry H., 155, 449.
Bowman, William B., 188.
Braasch, William F., 179, 183, 204, 210.
Braasch, William F., Roentgenologic diagnosis of ureteral stricture (original paper), 183, 210. *See other references.*
Bradley, Robert A., 308.
Brady, Geo. W., & Company, 166.
Braestrup, C. B., 282, 316.
Brain abscess in frontal lobe resulting from acute frontal sinusitis and osteomyelitis of orbital plate, F. H. Brandt (abstract), 434.
Brain, glioma of, Radiation treatment of, G. H. Hyslop and M. Lenz (abstract), 177.
Brain, gliomas of, Roentgen therapy of, Percival Bailey, M. C. Sosman, and A. Van Dessel (abstract), 266.
Brain tumors, Significance of petrous ridge deformation in roentgen-ray diagnosis and localization of, Henry K. Pancoast (abstract), 455.
Brain. *See* Ventricular system, radiography of.
Brambell, F. W. R., 400, 402.
Brandenstein (cited by H. P. Doub), 369, 375.
Brandt, F. H., 434.
Brattstrom, E., 209.
Brauer, Ludolph, 3, 5.
Breast, cancer of, Relation of chronic cystic mastitis to, A. R. Kilgore (abstract), 456.
Breast, carcinoma of, Treatment of, K. Buchholz (abstract), 534.
Breit, Gregory, 452.
Brewer, 52.
Brickner, W. M., 194, 198.
Bride, J. W., 408.
Brink, G. C., 450.
Brites, Lowitz, 492, 494.
Britesun, Inc., 167.
British Medical Association, 214, 215, 223.
British X-ray and Radium Protection Committee, 520, 527.
Broders, A. C., 360, 424, 427.
Bronchi and lungs, Musculature of, C. C. Macklin (abstract), 458.
Bronchiectasis, 3.
Bronchopneumonia in children, 384, 385.
Bronchoscopy, 1-3.
Bronson, Walter T., 166, 224, 363, 519.
Bronson, Walter T., Functional distortions of gastric contour (original paper), 224. *See other references.*
Brown, A. L., 3, 5, 118, 125.
Brown, Samuel, 165, 211, 212.
Brünauer, Stefan, 268.
Brunetti, L., 21, 22.
Buchholz, Karl, 534.
Buck, Kathleen, 406, 408.
Buck X-Ograph Company, 167.
Bucky, Gustav, 40.
Bueermann, Winfred H., 49, 361.
Bugbee, H. G., 204.
Burby, John J., and Barry, M. W., Comparative measurements of quality of roentgen rays, 275, 292, 293, 324.
Bureau of Standards, Germany, 89, 150, 392.
Bureau of Standards, United States, 322, 330, 334, 519.
Burnam, Curtis F., 157-160, 408.
Burnam, Curtis F., External distance applications of heavily filtered radium (editorial), 157-160. *See other reference.*
Burns, X-ray and radium, Treatment of, J. E. Sheehan (abstract), 178.
Burrows, Montrose T., 43.
Busi (cited by R. Balli), 484, 485, 487, 492.
Busi, sphincter of, 484-486, 492, 494, 495.

Cajori (quoted by R. Pemberton), 236, 237.
Caldwell, E. W., 22.
Caldwell position, 6.
Calibrating standard instruments with 3-electrometer method, On accuracy of, H. Hase and H. Kustner (abstract), 534.
California X-ray laboratories, 258.
Cameron Surgical Specialty Company, 167.
Camp, John D., 75.
Campbell (cited by N. J. Nessa), 66; (cited by E. S. Blaine), 208; (cited by M. S. Henderson), 220; (cited by H. P. Doub), 369, 374, 375.
Campbell, Willis C., Fractures of shaft of femur, 106.
Campuzano, Jorge, 205.
Cancer of breast, Relation of chronic cystic mastitis to, A. R. Kilgore (abstract), 456.
Cancer [of cervix], Regaud's technic in: use of new radium applicator, H. Swanberg, 435.
Cancer of cervix, Treatment of, Clyde O. Donaldson, 154.
Cancer of intestine: clinical study, R. Warren (abstract), 270.
Cancer [of] skin, X-ray treatment of, Results in, W. S. Lawrence (abstract), 267.
Cancer of stomach, Diagnosis of, William Gordon (abstract), 529.
Cancer, International Conference on, 368.
Cancer, Radium therapy in (abstract), 368.
Cancer, rats cured of, by radon, Study of resistance to tumor re-implantation, K. Sugiura and S. R. Benedict (abstract), 178.
Cancer treated in general practice by colloidal lead, Ernest Talbot (abstract), 453.
Cancer, treatment and results at Radiumhemmet, 76-78.
Cancer. *See also under* Carcinoma, Tumor, Malignancy.
Canelli, A. F., 204.
Cannon (cited by W. T. Bronson), 225; (cited by R. Balli), 486.

Cannon, sphincter of, 484, 486-488, 494.
Canti film, 363.
Capp, C. S., 313.
Carbuncle, 30, 31, 33.
Carcinoma of breast, Treatment of, K. Buchholz (abstract), 534.
Carcinoma of cervix (editorial), W. S. Lawrence, 447.
Carcinoma of cervix during pregnancy, with consideration of question of injury to offspring by irradiation, R. Zimmermann (abstract), 181.
Carcinoma of cervix, On influence of roentgen rays on carbohydrate metabolism of, K. Jaroschka (abstract), 458.
Carcinoma of cervix, Standardization of X-ray and radium treatment of, W. S. Lawrence, 429.
Carcinoma of cervix uteri, Treatment of pain in, with special reference to stricture of ureter, C. L. Martin (abstract), 274.
Carcinomata of uterine cervix, Management of, J. T. Stevens, 423.
Carcinoma of uterus, Roentgen-ray dose in, expressed in roentgen units, following ionization measurements in vagina, G. K. F. Schultze (abstract), 85.
Carcinoma of stomach, R. R. Graham (abstract), 91.
Carcinoma, gastric, Relationship of gastric ulcer to, M. R. Hoon and J. D. Garvin, 358.
Carcinoma, Flexner-Jobling rat, 178.
Carcinoma, vesical, Radium treatment of, A. C. Morson (abstract), 264.
Carcinoma. *See under* Roentgen rays, Studies of biological effect of.
Carcinoma. *See also* Cancer, Tumor, Malignancy.
Cardiac disease, use of lipiodol in cases of, 3, 4.
"Cardiac sign" in cancer of stomach, 530.
Carey, Eben J., 74, 165.
Carlson (cited by W. T. Bronson), 225.
Carnegie Institution, Washington, 452.
Carnett, J. B., 122, 126.
Carter, L. J., 27-34, 86, 88-91, 177, 180, 182, 264, 269, 272, 274, 367, 368, 455, 460, 532, 533.
Carter, L. J., Analgesic properties of the X-ray (original paper), 27. *See other references.*
Carty, John R., Source of danger in use of vertical roentgenoscopes and tube stands, 496.
Case, James T., 66-68, 100, 104, 228, 232, 233, 268, 525, 526.
Case management in radiotherapy, Margaret Hoing, 249.
Casellas, P. R., Roentgenologic study of child's chest, 382.
Cassidy, L. L., 230, 232.
Cathode rays, 151, 294.
Cathode rays, Clinical experiences with therapeutic use of, W. Baensch and R. Finsterbusch (abstract), 86.
Cathode ray dosimetry, Lauriston S. Taylor, 294.
Cervix, cancer of, Treatment of, Clyde O. Donaldson, 154.
Cervix, Carcinoma of, during pregnancy, with consideration of question of injury to offspring by irradiation, R. Zimmermann (abstract), 181.
Cervix uteri, carcinoma of, Treatment of pain in, with special reference to stricture of ureter, C. L. Martin (abstract), 274.
Cervix. *See also under* Carcinoma.
Chamberlain, W. E., 43.
Chest, child's, Roentgenologic study of, P. R. Casellas, 382.
Chest diagnosis, Lipiodol in its relation to, B. H. Nichols, 1.
Chest, physical and roentgen-ray examination of, Certain factors militating against accurate correlation of, F. M. Pottenger (abstract), 181.
Chiari (cited by H. O. Mertz and L. A. Smith), 195, 198; (cited by H. P. Doub), 369, 375.
Chiarolanza (cited by R. Balli), 489.
Chicago Medical Society, 163, 164, 363.
Chicago Roentgen Society, 163, 363, 518.
Chicago X-ray Film and Mount Company, 167.
Chilaiditi, D., 364.
Child's chest, Roentgenologic study of, P. R. Casellas, 382.
Childhood, first tuberculous infection of, Regarding, E. Rominger (abstract), 265.
Childhood, urinary infections in, Spina bifida occulta: its relation to dilatations of upper urinary tract and, H. O. Mertz and L. A. Smith, 193.
Children, bronchoscopy in, 2.
Children, Cholecystitis and cholelithiasis in, J. A. Beals (abstract), 263.
Children, feebleminded, 261.
Children, fracture of shaft of femur in, 112.
Children, sinus infection in, 385, 386.
Children, thymus examination in, 382, 385, 386.
Chiray, M., 194, 198.
Chite, A. L., 194, 198.
Chittick, A. G., 449.
Cholecystitis and cholelithiasis in children, J. A. Beals (abstract), 263.
Cholecystitis, Chronic, W. Magner (abstract), 85.
Cholecystographic filling, Failure of, in presence of acute pyloric pathology, E. H. Skinner, I. H. Lockwood, and E. R. Deweese (abstract), 366.
Cholecystography (editorial), W. W. Boardman, 362.
Cholecystography for differential diagnosis, New method to increase value of (abstract), Arnold Grebe, 5.
Cholecystography, Uncertainties of, W. W. Boardman (abstract), 271.
Cholelithiasis, Cholecystitis and, in children, J. A. Beals (abstract), 263.
Christeller, E., 507.
Christie, A. C., 416.
Christopher, Frederick, 193, 198.
Clairmont, P., 81.
Clark (cited by J. R. Dillon and B. A. Cody), 180.
Clark, John G., 435, 437-439, 443, 446.
Clarke, H. C., 205.
Cleveland, D. E. H., 274.
Cleveland, W. R., 449.
Coal miners' injuries, 345.
(Coarctation) of aorta, Erosion of ribs due to stenosis of isthmus, O. C. Railsback and William Dock, 58.
Coblentz, W. W., 331-333, 335, 339, 340.
Codman, E. A., 421, 422.
Cody, Bernard A., 179.
Cohnheim (cited by B. F. Schreiner), 127.
Colby, F. H., 204.
Cole, Lewis Gregory, 48, 88.
Cole, Lewis Gregory, Malignancy of gastric ulcer (original paper), 48. *See other reference.*
Coleman (cited by G. C. Anderson), 149.
Collins, J. N., 449.
Colloidal lead, Cancer treated in general practice with, Ernest Talbot (abstract), 453.
"Collosol lead." *See* Colloidal lead.
Colon, Roentgenology of: value in clinical medicine, J. W. Larimore (abstract), 105.
Colon, Sphincters of, R. Balli, 484.
Color, accurate determination of, by new instrument, 78.
Compton, Arthur H., 461.
Condyloma, pointed, Which type of, should be treated by roentgen rays? R. O. Stein (abstract), 271.
Coolidge, W. D., 36, 86, 151, 294, 295.

Cooper, John E., 67.
Cooper, Leon, 168.
Cooper & Cooper, Inc., 168.
Corning Glass Co., 332, 339.
Coronium (hypothetical element), 365.
Corrigan, S. H., 533.
Corscaden, J. A., 408, 449.
Coste, 194, 198.
Costolow, William E., 45, 98, 230-234, 448, 449.
Costolow, William E., with Albert Soiland and Orville N. Meland, Comparative notes on radon implants (original paper), 45. *See other references.*
Costolow, William E., with Albert Soiland and Orville N. Meland, Rôle of radiation therapy in pelvic infections (original paper), 230. *See other references.*
Cotton (cited by M. S. Henderson), 216.
Coutard, H., 443.
Coxa vara, Epiphyseal, M. K. Smith (abstract), 265.
Craigie, D., 58, 61.
Cramer, F. J., 194, 198.
Cramer, H., 90.
Crandall, L. A., and Walsh, E. L., Effect of iodized oils on serous membranes, 499.
Crane, A. W., 229, 234, 252-254.
Crane, A. W., Negative X-ray findings (editorial), 252-254.
Crista galli, bony nasal septum and, Rare or hitherto unrecorded cavity with fluid in, V. J. Schwartz (abstract), 457.
Crocker, William, 259.
Crouter, Miss, 236, 237.
Croves (cited by R. Balli), 488.
Crutchfield, E. D., 165.
Cryderman, W. J., 451.
Crystals, organic, radiation of, 151.
Cullen, Thomas S., 459.
Culligan (cited by J. R. Dillon and B. A. Cody), 180.
Cunningham, J. D., 418.
Curie colpostat, 437, 440.
Curie, Madame, 435.
Curtis, Arthur H., 232.
Curtis, W. C., 259, 260.
Cushway, B. C., 178, 264, 268, 434, 458, 531, 533.
Customs regulations covering Commercial Exhibit at Toronto meeting, 451.
Cutaneous roentgen therapy, Clinical difficulties encountered in, G. M. MacKee (abstract), 460.
Cutler, Max, 45, 94, 98.
Cyst, Follicular dental: operation, H. M. Goodyear (abstract), 533.
Cystadenoma of ovary, papillary, Value of radiation therapy in post-operative treatment of, W. A. N. Dorland, 419.
Czerny, V., 505.

D vitamins, 392.
Da Costa, John C., 418, 515.
Dalziel, T. K., 194, 198.
Dandy, Walter E., 144, 148.
Danger, Source of, in use of vertical roentgenoscopes and tube stands, John R. Carty, 496.
Dauvillier, M. A., 460.
David, Solomon D., 269.
Davies, Rose & Co., Ltd., 168.
Dawson (cited by I. S. Hirsch), 507.
Day, Robert V., 204.
Deaver, John, 48, 49, 182.
Delbet, Pierre, 194, 198.
Deneke (cited by A. Perutz), 534.
den Hoed, D., 392.
De-Quervainda, F., 488.
Dermatology, Polyradiotherapy in, W. I. LeFevre, 136.
Dermatology, Supersoft roentgen rays (2A.) in, J. J. Eller (abstract), 84.
Dermatoses, light, Substances circulating in blood as cause of, W. Lipschitz (abstract), 368.
Desjardins, A. U., 27, 32-34, 211, 259, 299, 454.
Dessauer, 85, 319.
Deweese, E. R., 366.
De Witt, C. H., 91.
Dextrocid injections, increase of effect of roentgen rays by, Experiences regarding, J. Jacobs (abstract), 270.
Diagnostic department of general hospital, Fred Jenner Hodges, 412.
Diathermy following fracture, 248.
Dickson, W. H., 176, 451.
Dickson, Mrs. W. H., 451.
Diet, special, Radium treatment of certain types of metabolic diseases in connection with, M. Heiner (abstract), 457.
Dieterich, W., 182.
Dietlen, 61.
Digit, supernumerary, Unusual type of, S. H. Corrigan (abstract), 533.
Dillon, James R., 179.
Diverticula of small bowel, E. L. Jenkinson, 100.
Diverticulosis of urinary bladder, E. J. Boardman (abstract), 366.
Diverticulosis of vermiform appendix, G. T. Pack and I. Scharnagel (abstract), 366.
Dobrzanski, A., 23.
Dock, William, 58.
Döderlein, A., 421, 422.
Döhner (cited by R. Balli), 486.
Donaldson, Clyde O., Treatment of cancer of cervix, 154.
Donaldson, S. W., 165.
Dorcas, M. J., 332, 340.
Dorland, W. A. Newman, 67, 419-422, 444, 446.
Dorland, W. A. Newman, Value of radiation therapy in post-operative treatment of papillary cystadenoma of ovary (original paper), 419. *See other references.*
Dorman (cited by G. C. Anderson), 149.
Dorno, C., 177.
Dose unit for roentgen rays, Regarding question of, Hermann Behnken (abstract), 150.
Doub, H. P., 23-25, 66, 67, 85, 265, 273, 355, 366, 367, 369, 455.
Doub, Howard P., Intrapelvic protrusion of acetabulum (original paper), 369. *See other references.*
Dourmashkin, R. L., 204.
Drea, W. F., 23.
Dresser, R., 421, 422.
Dreuschuck, F., 421, 422.
Drips, Della G., joint author, 393, 408-411.
Drosophila eggs, 461, *et seq.*
Duane, William, and his ionization chamber, 150, 277, 280, 281, 289-292, 310-313, 315, 316, 319, 322, 324-326, 461, 465, 470.
Dufestel, 364.
Duffy, James J., Use of gold-filtered radon seeds, 93.
Dunavant, Buford N., 204.
Duodenitis, Roentgenologic consideration of, B. R. Kirklin, 377.
Durck, H., 505.

Eastman Kodak Company, 168.
Eban, Isaac, 418.
Echternacht, A. C., 449.
[Education] Place of radiology in undergraduate medical curriculum (editorial), C. C. Bass, 69.
Ehrich, 127.
v. Eiselberg, 50.
Eisendrath, Daniel N., 165, 204, 205.
Eisenstaedt, J. S., 195, 198.

Eisler, Fritz, 125, 258.
Elder, H. C., 125.
Electroscopic charging device, Modifications of, Robert B. Taft, 65.
"Electrostatic R-unit," 317, 319.
Eller, Joseph J., 84.
Elliot (cited by R. Balli), 491.
Elsberg, C. A., 147, 148.
Elsner, H. L., 515.
Emerson, W. B., 339, 340.
Emmert, Max, 418.
Emphysema, Subpleural, as causative factor in formation of annular shadows, H. P. Doub (abstract), 273.
Engeln Electric Company, 168.
Epiphyseal coxa vara, M. K. Smith (abstract), 265.
Eppinger (cited by H. P. Doub), 370, 375.
Epstein, R., 455.
Erdmann (cited by W. A. N. Dorland), 419.
Ernst, Edwin C., 10, 15, 23, 24, 43, 363, 448.
Erosion of ribs due to stenosis of isthmus (coarctation) of aorta, O. C. Railsback and William Dock, 58.
Erskine, A. W., 319, 320, 323.
Erythema dose, 297, 299, 320, 321, 327, 467.
Erythrocyanosis crurum puellaris. Regarding light therapy of, A. Perutz (abstract), 534.
Esau (cited by H. P. Doub), 369, 370, 375.
Esophagus, Hyperkeratosis of, F. N. G. Starr (abstract), 90.
Esophagus, Peptic ulcer of, J. Friedenwald, M. Feldman, and W. F. Zinn (abstract), 458.
Esophylaxis of skin from viewpoint of new light research, A. Memmesheimer (abstract), 533.
Estes, W. D., 222, 239.
Estes, W. L., Fractures of femur (original paper), 239. *See other reference.*
Eusterman, George B., 49, 361.
Evans, William A., 528.
Ewing, James, 49, 51, 127, 135, 300, 420, 517.
Eye, tuberculosis of, Roentgen-ray treatment of, G. Herrnheiser (abstract), 387.

Failla, G., 45, 94, 98, 160, 291, 320, 323, 324, 470.
Fairbank, H. A. T., 418.
Fay, Temple, 74, 122, 125, 198.
Fehr, O., 365.
Feldman, Maurice, 458.
Feldweg, P., 408.
Fels, Erich, 418.
Felty, Augustus R., 205.
[Femur] Femoral neck, Roentgenologic demonstration of non-union in, P. M. Hickey (abstract), 264.
Femur, Fractures of W. L. Estes, 239.
Femur, Giant-cell tumor of neck of (operation, with probable cure), W. G. Turner (abstract), 269.
Femur, Fractures of shaft of, Willis C. Campbell, 106.
Féré (cited by H. P. Doub), 369, 375.
Fernau, Albert, 151, 255.
Fibroids, Treatment of, F. B. Mowbray (abstract), 180.
Fibromyomata and other benign gynecologic cases, Roentgen therapy in: clinical report of 12 years' experience, M. E. Hanks, 403.
Fifteenth Annual Meeting of the Society, Toronto, December, 1929, 450.
Figi, F. A., 449.
Filippini, G., 21, 22.
Finsterbusch, R., 86.
Fischer, Karl, 205.
Fishback, 209.
Fisher, L. F., 449.
Fistula, Gastrocolic, W. H. Dickson (abstract), 176.
Fitz, R. H., 505.
Flascamp, 230.
Fleischner, Felix, 256.
Fleming, H. N., 168.
Fliegel, Otto, 256.
Foley, Frederick E. B., 172.
Food stuff, vitamin-free, On influence of roentgen rays on, F. Rost and W. Dieterich (abstract), 182.
Ford, Frances A., 393, 406, 408-409, 420, 422.
Ford, Frances A., and Drips, Della G., Clinical and experimental studies of low dosage irradiation of ovaries and hypophysis in menstrual disorders (original paper), 393. *See other references.*
Foreign body, examination of children for, 383.
Foreign body, movements of, within body, 212, 213.
Foreign object in kidney, Unusual, Edward S. Blaine, 207.
Forestier, J., 1, 3, 23, 25, 82, 114, 117-119, 122-126, 148, 194, 198, 499, 504.
Forssell, Gösta, 76.
Foulds, G. S., 206.
Foundations in roentgenology (editorial), C. G. Sutherland, 517.
Fractures from operative viewpoint, Melvin S. Henderson, 214.
Fractures of femur, W. L. Estes, 239.
[Fracture of femur] Roentgenologic demonstration of non-union in femoral neck, P. M. Hickey (abstract), 264.
Fractures of pelvis, W. H. Gilmore, 345.
Fractures of shaft of femur, Willis C. Campbell, 106.
Fractures, Simple, Committee on Treatment of, British Medical Association, 214, 215, 223.
François, Jules, 194, 198.
v. Frankl-Hochwart, L., 195, 198.
Fraser, John, 525.
Fraser position, 11.
Fraser, Robert H., 6, 114, 125.
Fraser, Robert H., Diagnostic uses of lipiodol in paranasal sinuses (original paper), 6. *See other references.*
Frazier, C. H., 499, 504.
Freeman, Ira M., 365.
Frehafer, M. K., 340.
French Screen Company, 169.
Freund, Ernst, 256.
Freund, Leopold, 256.
Fricke, Hugo, 89, 153, 471.
Friedenwald, Julius, 458.
Friedl, E., 81.
Friedlander bacillus, Roentgen-ray diagnosis of pulmonary infections with, K. Kornblum (abstract), 180.
Friedman, Lewis J., Iodized oil in roentgenology, 114.
Friedrich, 319.
Fuhs, Herbert, 256.
Fullsack, H., 532.
Fürst, Walter, 427, 428.
Furunculosis and carbuncle, 30, 31, 33.

Gabor (cited by H. Holthusen), 39.
Gager, C. Stuart, 259.
Galen (cited by W. W. Wasson), 385.
Gallbladder, Chronic, John Deaver (abstract), 182.
Gall-bladder disease. *See also* Cholecystography, etc., and Graham gall-bladder test.
Gamma radiation, Distribution of, in space, and its measurement for therapeutic purposes, E. Kessler and F. Sluys (abstract), 267.
Gangrene, pulmonary, 384.
Gardner, James, 165.
Garvin, John D., joint author, 358.
Gassul, R., 364.

Gastric contour, Functional distortions of, Walter T. Bronson, 224.
Gastric polyposis: report of 2 cases, with review of literature, A. A. Strauss, J. Meyer, and A. Bloom (abstract), 267.
Gastric syphilis, Roentgenologic manifestations in 87 cases of, A. B. Moore and R. Aurelius (abstract), 269.
Gastric ulcer to gastric carcinoma, Relationship of, M. R. Hoon and J. D. Garvin, 358.
Gastric ulcer. *See under* Ulcer.
Gastrocolic fistula, W. H. Dickson (abstract), 176.
Gastro-intestinal tract, congenital malformation of, Report of case of, A. B. LeMesurier and F. F. Tisdall (abstract), 271.
Gefasse (cited by O. C. Railsback and W. Dock), 61.
Geiringer, David, 205.
Geist, S. H., 404, 407, 408.
Gelston, C. F., 2, 5.
General X-ray Company, 169.
Genoway, Charles V., 33.
George, A. W., 486.
Geyman, M. J., 266, 267, 269, 271, 368.
Gibson, K. S., 333, 336, 338, 340.
Gietz (cited by R. Balli), 488.
Gilmore, W. H., Fractures of pelvis, 345.
Ginsburg, Solomon, 449.
Gland, prostate, Sarcoma of, R. E. Powell (abstract), 455.
Gland, suprarenal, Effect of irradiation on, A. U. Desjardins (abstract), 454.
Glaser, M. A., 499, 504.
Glass seeds, 93 *et seq.*
Glass, Ultra-violet transmitting, C. Dorno (abstract), 177.
Glass, window, and quartz in ultra-violet region, On influence of dust and dirt on transparency of, W. Hausmann and O. Krumpel (abstract), 179.
Glasser, Otto, 86, 88, 89, 150, 293, 309, 315-319, 321-325, 327, 367, 460.
Glasser, Otto, and Portmann, U. V., Reliability of r-unit for measurement of roentgen and radium radiation (original paper), 317. *See other references.*
Gliomas of brain, Roentgen therapy of, Percival Bailey, M. C. Sosman, and A. Van Dessel (abstract), 266.
Glocker, R., 277, 282, 292, 309, 314, 315, 319, 388, 391.
Glucose therapy combined with roentgen rays in malignant disease (after E. G. Mayer), Experience with, H. Fullsack (abstract), 532.
Goddu, Louis A. O., 418.
Goin, Lowell S., 188.
Gold as filter, 93 *et seq.*, 439.
Goldhaft (cited by R. Pemberton), 236.
Goldhamer, Karl, 258.
Gollwitzer, H., 316.
Goodspeed, T. H., 259.
Goodyear, Henry M., 23, 533.
Gorczynski, L., 339, 340.
Gordon, William, 529.
Gottheiner (cited by R. Balli), 486.
Graham, Evarts A., 101.
Graham, Roscoe R., 91.
Graham test for gall-bladder function (cholecystography), 85, 182, 263, 271, 366.
Granger, Amédée, 23, 160.
Granger position, 6.
Grant, Francis C., 142, 148.
Grauer, S., 528.
Gravinghoff, W., 81.
Grebe, Arnold, 5.
Grebe, L., 90, 150, 319.
Greenbaum, S. S., 122, 126.
Greenleaf, W. S., 418.
Gregorson, A. W., 270.
Grenz rays, 84, 86.
Grenz rays, Dosimetry of, in *R*-units with standard instrument of Kuestner, G. H. Kloevekorn (abstract), 270.
Grier, George W., 140, 448.
Griffith, H. D., 333, 340.
Groedel, Franz M., 81, 175, 365.
Groover, Thomas A., 160, 408.
Grossmann, G., 277, 282.
Gudzent, F., 381.
Gurwitsch, 260.
Gutierrez, Robert, 455.
v. Guttenberg, H., 260.
Guy, J., 125.
Gynecologic cases, benign, Roentgen therapy in fibromyomata and other: clinical report of 12 years' experience, M. E. Hanks, 403.
Gynecologic disease, benign, Roentgen ray as remedy in: summary of 11 years' observation, M. E. Hanks (abstract), 90.
Gynecology, Roentgen diagnosis in: iodized oil and pneumoperitoneum combined, Irving F. Stein and Robert A. Arens, 341.

Haas, Ludwig, 529.
Habbe, J. E., 84, 87, 105, 126, 179, 181, 182, 264, 267-274, 366, 454, 456, 460, 527, 529, 532, 534.
Habermann, R., 81.
Hackenbroch, M., 194, 198.
Haenisch, F., 81.
Hall (cited by R. Balli), 488.
Hall, E. W., 87.
Hamburger, L. P., 505.
Hamilton (cited by W. L. Estes), 243.
Hance, Robert F., 259.
Hanks, Mary E., 90.
Hanks, Mary E., Roentgen therapy in fibromyomata and other benign gynecologic cases: clinical report of 12 years' experience, 403-409.
Hanovia Chemical and Manufacturing Company, 169.
Hanson, F. B., 259.
Hardy, Arthur C., 78, 79.
Harris, M. L., 356, 357.
Harris, Robin, 531.
Hartley, J. N. J., 418.
Hartmann (cited by R. Balli), 488.
Hartmann, K., 515.
Hase, H., 534.
Haslinger, Koloman, 205.
Haudek, Martin, 256, 258.
Hausmann, Walter, 256.
Hausmann, W., 179.
Hausser, K. W., 38, 89, 178.
Hayes, Richard, 165.
Hazen, Henry H., 270.
Heacock, Charles H., 418.
Healy, William P., 435.
Heart, effect of iodized oils upon, 499-504.
Heart in childhood, X-ray study of, 385.
Heart, roentgen-ray shadow of, Percussion of heart borders and, C. M. Kurtz and P. D. White (abstract), 177.
Heidehain (cited by A. Soiland, W. E. Costolow, and O. N. Meland), 230.
Heiner, M., 457.
Heitz, Jean, 61.
Hemolysis, radium, On knowledge of, I. Yamasaki (abstract), 264.
Henderson, Melvin S., Fractures from operative viewpoint, 214.
Henderson, W. F., 372.
Hepburn, Thomas N., 205.
Herbst, Robert H., 205.
Herpel, F. K., 22.
Herpes zoster, 29, 31.
Herrick, John F., Treatment records, 62.

Herrnheiser, G., 387.
Hertzler, A. E., 370, 375.
Herz (cited by O. C. Railsback and W. Dock), 61.
Hess (cited by H. Holthusen), 39.
Hess, L. R., 450, 451.
Hess, P., 314-316.
Hickey, P. M., 23, 87, 149, 164, 165, 213, 264, 309-316, 321, 323, 324, 449.
Hickey, P. M., Pohle, Ernst A., Lindsay, G. A., and Barnes, John M., Skin toleration doses in roentgen units and their relation to quality of radiation (original paper), 309, 321. *See other references under names of joint authors.*
Hines, L. M., 84.
Hip condition, uncommon. *See* Acetabulum, Intrapelvic protrusion of.
Hirsch (cited by R. Balli), 486.
Hirsch, I. Seth, 26, 83, 232, 233, 505.
Hirsch, I. Seth, Generalized osteitis fibrosa (original paper), 505. *See other references.*
Hirsch, sphincter of, 484-488, 492, 494, 495.
Hodges, Fred Jenner, Diagnostic department of general hospital, 412.
Hodges, Paul, 313.
Hodgkin's disease, 157-159.
Hodgkin's disease, dextrocid injections in, 270.
Hoffman, C. A., 365.
Hoffman, E., 533.
Hoffman, G., 365.
Hoffner, Karl, 92.
Hoing, Margaret, Case management in radiotherapy, 249.
Holfelder, H., 81, 82, 85, 299.
Holland, C. Thurstan, 74.
Holmes, G. W., 418, 421, 422.
Holthusen, H., 35-44, 275, 276, 282, 290, 310, 314-316, 319, 471.
Holthusen, H., Biological aspects of roentgen therapy (original paper), 35. *See other references.*
Holz, A., 81.
Holzknecht, Guido, 230, 232, 257, 381.
Holzman, J. L., 421, 422.
Hoon, Merle R., and Garvin, John D., Relationship of gastric ulcer to gastric carcinoma: case in point, 358.
Horlick's Malted Milk Corporation, 170.
Hospital, general, Diagnostic department of, Fred Jenner Hodges, 412.
Hospitals—
Barnes, St. Louis, 101.
Blue Ridge Sanatorium, Va., 84.
Charity, New Orleans, 160.
Cincinnati General, 414.
Howard A. Kelly, Baltimore, 429.
Massachusetts General, 1.
Memorial, New York, 45, 321.
Milwaukee County, 472.
Montreal General, 455.
Northern, Highgate, England, 74.
Radiumhemmet, Stockholm, Sweden, 76-78.
St. Luke's Bethlehem, Pa., 247.
St. Mary's, Madison, Wisc., 412.
State Institute for Study of Malignant Disease, Buffalo, 127.
University, Leipzig, 86.
Hryntschak, Theodor, 256.
Hubeny, M. J., 23, 67, facing 70 (portrait), 420.
Hudson, J. C., 289, 316.
Hueper, William, 428.
Hughes, C. W., 332, 340.
Hunt, F. L., 522.
Huntington (cited by R. Balli), 484.
Hurst, Arthur F., 367.
Hurst (cited by W. T. Bronson), 225.
Hussey (cited by M. C. Reinhard and K. L. Tucker), 153.
Huxford, W. S., 330, 340.
Hyman, A., 205.
Hyperkeratosis of esophagus, F. N. G. Starr (abstract), 90.
Hyperthyroidism, use of lipiodol in cases, 3, 4.
Hypophysis and ovaries, clinical and experimental studies of low dosage irradiation of, in menstrual disorders, F. A. Ford and D. G. Drips, 393.
Hyslop, George H., 177.

Icterus, hemolytic, Anemic hemolytic splenomegaly—group of symptoms similar to, A. Adler (abstract), 86.
Iglauer, Samuel, 116, 125.
Ileus, Roentgenological aid in diagnosis of, J. T. Case (abstract), 268.
Indiana Roentgen Society, 449.
Indiana University School of Medicine, 195.
Infections, pelvic, Rôle of radiation therapy in, A. Soiland, W. E. Costolow, and O. N. Meland, 230.
Infections, pulmonary, Roentgen-ray diagnosis of, with Friedlander bacillus, K. Kornblum (abstract), 180.
Inflammation, Experimental investigations regarding influence of roentgen rays on course of, in comparison with other physical methods, R. Motojima (abstract), 178.
Inflammatory diseases, pelvic, Roentgen therapy of, H. Kamniker and St. Simon (abstract), 531.
Ingber, E., 88.
Injury to offspring following irradiation of ovaries, New observations regarding question of, W. Schmitt (abstract), 459.
Inlow, H. H., 449.
International Congress, Paris, 524.
International Congress, Stockholm, 365, 519, 524, 527.
"International r-unit," 317, 319, 322.
Interpretation of seminal vesiculogram, James C. Sargent, 472.
Intestine, Cancer of: clinical study, R. Warren (abstract), 270.
Intestine, small, Multiple superficial ulcers of, K. Kanagarayer (abstract), 268.
Intracranial pressure. *See* Ventricular system, radiography of.
Iodin medication in Basedow's disease, 381.
Iodipin, 114.
Iodized oil and pneumoperitoneum combined: Roentgen diagnosis in gynecology, I. E. Stein and R. A. Arens, 341.
Iodized oils, Effect of, on serous membranes, L. A. Crandall and E. L. Walsh, 499.
Iodized oil in roentgenology, Lewis J. Friedman, 114.
Ionization chamber, Biological, F. C. Wood, 461.
Irradiation, Effect of, on suprarenal gland, A. U. Desjardins (abstract), 454.
Irradiation, low dosage, Clinical and experimental studies of, of ovaries and hypophysis in menstrual disorders, F. A. Ford and D. G. Drips, 393.
Irradiation of ovaries, New observations regarding question of injury to offspring following, W. Schmitt (abstract), 459.
Israll, Sidney, 263.

Jackson, Chevalier, 2, 4.
Jacobi, Hans, 534.
Jacobs, Josef, 270.
Jacquelin, A., 535.
Jaeger, R., 89, 313, 316, 319.
Jarcho, J., 499, 504.
Jaroschka, K., 458.
Jarre, Hans A., 5, 86, 87.
Jefferson, G., 505.

Jenkinson, Edward L., Diverticula of small bowel, **100.**
Jennings, H. S., 259.
Jerman, Edward C., 174.
Jones, Sir Robert, 214, 223.
Jones, S. F., 515.
Jones, W. Edmund, 498.
Jordan, 58.
Jorstad, Louis H., 43.
Judd, E. Starr, 206, 377, 380.
Jung, P., 343, 344.
Jüngling, O., 81.
Jungmann, Martin, 258.
Just, E. E., 259.

Kacura, T., 88.
Kadig, K., 81.
Kamniker, Hellmut, 256, 531.
Kanagarayer, K., 268.
Kaplan, I. I., 395, 402, 440, 443.
Katzenstein, 194, 198.
Kaupp (cited by A. Mutscheller), 388, 391.
Kaye, G. W. C., 524-526.
Keene, F. E., 422.
Keith (cited by R. Balli), 491.
Kelley-Koett Mfg. Co., 170.
Kellogg (cited by J. A. Beals), 263.
Kelly (cited by W. A. N. Dorland), 419.
Kelly, Howard A., 408, 435.
Kennedy (cited by I. F. Stein and R. A. Arens), **341.**
Kessler, E., 267.
Kestner (cited by A. Loewy), 176.
Keyser, L. D., 206.
Kidney lesions, Roentgen findings in some obscure, W. B. Bowman and L. S. Goin, 188.
Kidneys, neoplasms of, 179.
Kidney pelves and ureters, Anomalies of, R. P. Potter and W. G. Sexton, 199, 210.
Kidney, Unusual foreign object in, Edward S. Blaine, 207.
Kienböck, R., 9.
Kienbock photographic method, 461.
Kilgore, Alson R., 456.
King, J. T., Jr., 61.
Kingery, Lisle B., 205, 319.
Kirkbride, T. S., 514.
Kirklin, B. R., Roentgenologic consideration of **duodenitis, 377.**
Kirkpatrick (cited by A. Mutscheller), 393.
Kirwin (cited by J. C. Sargent), 481, 483.
Kittrum (cited by L. G. Cole), 50.
Klaften (cited by A. Soiland, W. E. Costolow, and O. N. Meland), 230.
Klestadt, W., 365, 515.
Kloevekorn, G. H., 270.
Knight, R. W., 91.
Knox, Leila C., 212, 406, 408.
Knox, Robert, 74, 75.
Koch, M., 505.
Koehler, Alban, 525-527.
Koernicke, M., 81.
Kohlmann, G., 81.
Kollath (cited by H. Holthusen), 38.
Konjetzny, G. E., 377, 378, 380, 381.
Konrad, Josef, 256.
Koopman, L. J., 392.
Kornblum, Karl, 74, 165, 180.
Korte (cited by R. Balli), 488.
Kowarschik, J., 365.
Kramer, Franz, 365.
Krause, P., 81, 527.
Krehl, Ludolf, 228.
Kroetz (cited by H. Holthusen), 41.
Kruchen, C., 81.
Kruger, W. C., 450, 451.
Krumpel, O., 179.
Kuestner (Küster), and his instrument, 150, 270, **276, 312-316, 319, 534.**
Kuestner, standard instrument of, Dosimetry of Grenz rays in *R*-units with, G. H. Kloevekorn (abstract), **270.**
Kurtz, Chester M., 177.

LaBier, C. R., **449.**
Lacassagne, A., **443.**
Lagrot, F., 193, 194, 197, 198.
Lahm, W., 364.
Laibe, Joseph E. F., 165.
Laimar (cited by R. Balli), 492.
Lamps for "artificial sunlight," 328 *et seq.*
Lamp, mercury vapor. *See* Oshima, Zembei.
Landau, Walter, 125.
Lane, A., 488.
Lane, Sir Arbuthnot, 214, 218, 221, 223.
Langenskiold, F., 505.
Lape, C. P., 420, 422.
Larimore, J. W., 105, 328.
Laurens, Henry, 259, 328.
Laurens, Henry, and Mayerson, H. S., Measurement and specification of radiant energy, 328. *See other reference.*
Lawrence, W. S., 267, 429-434, 443-445, 447, 448.
Lawrence, W. S., Carcinoma of cervix (editorial), 447, 448. *See other references.*
Lawrence, W. S., Standardization of X-ray and radium treatment of carcinoma of cervix (original paper), 429. *See other references.*
Lazarew, N. W., 528.
Leases, exclusive, resolution pertaining to, 518.
Leclerc, R., 194, 198.
Leddy, Eugene T., 308.
LeFevre, W. I., Polyradiotherapy in dermatology, 136.
Legg's disease in late stage, S. D. David (abstract), 269.
Leggett, B. J., 260.
LeMesurier, A. B., 271.
Lenard, 294.
Lenart, Ernst, 91.
Lenartowski, H., 23.
Lenk, Robert, 258.
Lenz, Maurice, 177, 428, 429, 443.
Leonard, R., 486.
Leri, A., 194, 198.
Leriche (cited by I. S. Hirsch), 507.
Lespinasse, V. C., 207.
Leucutia, T., 528.
Leukemia, 157, 158.
Leukemia, chronic, Regarding treatment of, R. Epstein (abstract), **455.**
Leukemia, priapismus in, Roentgen therapy of, Paul **Krause (abstract), 527.**
LeWald, L. T., 212, 357, 376, 448.
Lewin, P., 370, 375.
Liebmann, E., 81.
Liechti, Adolf, 534.
Light, quartz, Treatment of psoriasis with intravenous trypaflavine injections and, M. Oppenheim (abstract), 367.
Light radiations, red and quartz, Biological importance of, F. Ludwig and J. von Ries (abstract), 392.
Light research, new, Esophylaxis of skin from viewpoint of, A. Memmesheimer (abstract), 533.
Light therapy of erythrocyanosis crurum puellaris, A. Perutz (abstract), 534.
Lind (cited by M. C. Reinhard and K. L. Tucker), 151.
Lindenmuth, E. O., 449.
Lindsay, G. A., joint author with P. M. Hickey, E. A. Pohle, and John M. Barnes, 309-316.
Liniger, Hans, 175.
Lipiodol, 1, 26, 82, 83, 114-126, 148, 149, 499-504.

Lipiodol (Lafay), experiments with, 499-504.
Lipiodol in its relation to chest diagnosis, B. H. Nichols, 1.
Lipiodol in paranasal sinuses, Diagnostic uses of, R. H. Fraser, 6.
Lipoiodin ("Ciba"), experiments with, 499-504.
Lipschitz, Werner, 368.
Lister, Lord, 214, 221.
Little, C. C., 259.
Liver, roentgen study of, 531.
Livesay, H. R., 499, 504.
Lochry, R. L., 449.
Lockwood, Ira H., 366.
Lodge, S. D., 206.
Loebel, R., 369, 374, 375.
Loewy, A., 176, 177.
Lombard (cited by R. Pemberton), 236.
Looser, E., 81.
Lorenz, E., 289, 312, 316, 323.
Losee, J. R., 204.
Lossen, H., 81, 175, 498.
Lotsch, F., 505.
Loucks, R. E., 449.
Lowsley (cited by J. C. Sargent), 481, 483.
Lowsley, Oswald S., 205.
Lovas, A., 421, 422.
Luckiesh, M., 336, 340.
Ludwig, Fritz, 392.
Luger, Alfred, 256, 257.
Lung abscess, 2, 3, 535.
Lungs and bronchi, Musculature of, C. C. Macklin (abstract), 458.
Lung, azygos lobe of, A. J. Bendick and H. Wessler (abstract), 182.
Lungs, lipiodol in study of. *See* Chest diagnosis, Lipiodol in its relation to, B. H. Nichols, 1.
Lung, Massive (atelectatic) collapse of: with report of case showing associated spontaneous pneumothorax, L. R. Sante (abstract), 527.
[Lungs] pulmonary abscesses, Large, caused by pyogenic micro-organisms, F. Bezançon and A. Jacquelin (abstract), 535.
Lung, Rheumatic, A. E. Naish (abstract), 267.
Lung, right, Frequency of tuberculous involvement of, as determined by physical examination and X-ray findings, L. M. Hines (abstract), 84.
Luschka (cited by R. Balli), 491.
Lymphomatosis, aleukemic, systemic, Radiation effects on (report of four cases), B. F. Schreiner, 127.
Lynch, Frank W., 435.

Macbeth lamp, 332.
McCarrison, Robert, 228.
MacCarty, William C., 49-51, 358, 361, 377, 378, 380, 381.
McClelland, D. C., 449.
McCrae, John, 418.
MacCready, P. B., 23.
Macfarlan, Douglas, 23.
MacFarlan position, 6.
MacGowan, Granville, 205.
McGuffin, W. H., 88, 449.
MacKee, George M., 136-138, 274, 460.
McKelvie, B., 21, 23.
Macklin, Charles C., 458.
Maclaire, A. S., 122, 125, 198.
McNicholas, H. J., 336, 340.
McQuay, R. W., 532.
McVicar, C. S., 361.
Magner, W., 85.
Maier, R. J., 66, 67.
Malignancies, inoperable, X-ray treatment of, 30.
Malignancies, uterine, Management of, at Radium Institute of University of Paris, G. T. Pack (abstract), 272.
Malignant disease, deep-seated, Further observations on saturation method of roentgen therapy as applied to, G. E. Pfahler (abstract), 533.
Malignant disease, Experience with glucose therapy combined with roentgen rays in (after E. G. Mayer), H. Fullsack (abstract), 532.
Malignant Disease, State Institute for Study of, Buffalo, 127.
Malignancy of gastric ulcer, Lewis Gregory Cole, 48.
Malignancy, radium treatment of, 45-47, 93 *et seq.*; 429 *et seq.*
Mallory (cited by L. G. Cole), 51.
Mandelbaum, J. M., 118, 125.
Maner, George D., 205.
Mann, Ludwig, 365.
Mann, L., 81.
Mansfield, R. J., 168.
Marquis, W. J., 115, 125.
Martin, Charles L., 274, 450.
Martin, Hayes E., 448.
Martin, James M., 139, 450.
Martin metal bands for fractures, 218.
Martin, Walton, 212.
Martius, R., 81.
Marum (cited by A. Soiland, W. E. Costolow and O. N. Meland), 230.
Massachusetts Institute of Technology, 78, 80.
Massage (for arthritis), 235; (following fracture), 247.
Mastitis, chronic, 29, 31.
Mastitis, Chronic cystic—its relation to cancer of breast, A. R. Kilgore (abstract), 456.
Mastoid disease, Roentgenogram in, H. K. Taylor (abstract), 126.
Mathewson, W. E., 340.
Mattioli (cited by R. Balli), 488.
Mavor, J. W., 259.
Mayer, Ernst Georg, 258, 532.
Mayer, G. A., 421, 422.
Mayerson, H. S., joint author with Laurens, Henry, 328.
Mayfield, A. L., 419-422.
Mayo, Charles W., 48-50, 205.
Mayo Clinic, 48, 49, 51, 165, 216, 218, 360, 377, 380, 420-422, 427, 433.
Mayo, W. J., 51, 75.
Mayo (cited by G. Schwarz), 381.
Measurement of X-ray dosage, number of articles written upon, 461.
Meckel, A., 58, 61.
Mediastinitis, acute, 383.
Medical Protective Company, 171.
Meland, Orville N., with Albert Soiland and William E. Costolow, Comparative notes on radon implants (original paper), 45. *See other reference.*
Meland, Orville N., with Albert Soiland and William E. Costolow, Rôle of radiation therapy in pelvic infections (original paper), 230. *See other reference.*
Meloy, C. R., 205.
Melville, Stanley, 524.
Membranes, serous, Effect of iodized oils on, L. A. Crandall and E. L. Walsh, 499.
Memmesheimer, Alois, 533.
Menees, T. O., 66.
Menstrual disorders, Clinical and experimental studies of low dosage irradiation of ovaries and hypophysis in, F. A. Ford and D. G. Drips, 393.
Mertz, H. O., 193, 199, 205, 210-213.
Mertz, H. O., and Smith, Lester A., Spina bifida occulta: its relation to dilatations of upper urinary tract and urinary infections in childhood (original paper), 193, 210-213. *See other references.*

Metabolic diseases, certain types of, Radium treatment of, in connection with special diet, M. Heiner (abstract), 457.
Meyer, J., 267.
Meyer, Keith T., 416, 449.
Meyer, W. H., 277, 278, 282, 309, 310, 315, 316, 319.
Middlewest Instrument Company, 172.
von Mikulicz, J., 506.
Miller, T. Grier, 528.
Miller, William, 207, 208.
Milliken, 168.
Mills, Edward S., 264.
Mills, H. P., 165.
Minder, Julius, 205.
Mitchell (cited by R. Pemberton), 237.
Moizard (cited by I. S. Hirsch), 514, 515.
Moniz (cited by J. Forestier), 148.
Monod, O., 443.
Montanari (cited by R. Balli), 485, 486.
Moody, Robert O., 531.
Moore, Alexander B., 269, 359, 361.
Moore, C. N., 151, 294.
Moore, J. B., 346, 347, 354.
Moore, R. G., 449.
Morison, John W., 525.
Morrissey, E. J., 122, 126.
Morse (cited by M. C. Reinhard and K. L. Tucker), 153.
Morson, A. Clifford, 264.
Mosher, H. P., 1.
Motojima, R., 178.
Moutier (Rossi), accessory sphincter of, and Moutier, sphincter of, 484, 487, 489, 492-495.
Mowbray, F. B., 180.
Moynihan, Sir Berkeley, 49, 50.
Mucharinskis, M. A., 195, 198.
Mueller (cited by H. P. Doub), 369, 375.
Muller, H. J., 259.
Murdoch (cited by W. Walch, D. den Hoed, and L. J. Koopman), 392.
Murphy, Douglas, 234.
Murphy, J. T., 514.
Mutscheller, A., 282-291, 314, 324, 326, 388-392 (original paper).
Mutscheller, A., Method of graphically evaluating photographic spectra (original paper), 388. *See other references.*
Mutscheller, A., Quality average of continuous X-ray spectrum (original paper), 283. *See other references.*
Myers, B. E., 505.

Nachlas, I. W., 505.
Nagel, G. W., 380.
Naish, A. E., 267.
Nasledow, D., 88.
Nather, 42.
National Aniline and Chemical Company, 172.
National Fire Protection Association, 523.
National Research Council, 259.
Neal, F. C., 450.
Necker, F., 195, 198.
Negative X-ray findings (editorial), A. W. Crane, 252-254.
Nemenoff (cited by M. E. Hanks), 408.
Nessa, N. J., Roentgenologic diagnosis of anencephalus (case report), 66.
Neuralgia, sciatic, 33.
Neuralgia, trigeminal, 27, 31.
Neuswanger, C. H., 119, 125.
New England Roentgen Ray Society, 75.
Newcomet, W. S., 406, 408.
Newell, R. R., 470.
Nichols, B. H., 1, 24, 25, 199, 205, 210. *See other reference.*
Nichols, B. H., Lipiodol in its relation to chest diagnosis (original paper), 1. *See other references.*
Nomenclature, Subcommittee on, recommendations of, 160.
Norris, C. C., 421, 422, 435, 443.
Norsworthy, O. L., 448, 449.
Nove-Josserand, 194, 198.
Oakman, C. S., 449.
Oberguggenberger, Viktor, 89.
Obstipation, Regarding favorable effect of roentgen rays on, E. Lenart (abstract), 91.
Ochsner's "Surgical Diagnosis" quoted, 49.
Ocular involvement in sinus diseases, E. S. Thomson (abstract), 268.
Offspring, injury to, by irradiation, Carcinoma of cervix during pregnancy, with consideration of question of, R. Zimmermann (abstract), 181.
Ollerenshaw, Robert, 416.
Ollier's disease: report of case, T. H. Thomason (abstract), 88.
Omarthritis, Clinic and roentgenotherapy of, S. Grauer (abstract), 528.
Oppenheim, M., 367.
Oppenheimer, Rudolf, 532.
Optical Society of America, 78.
Orbaan, C., 421, 422.
Orndoff, B. H., 229, 499.
Orton, 180.
Osgood, R. B., 414, 416.
Osgood-Schlatter's disease, Robert B. Taft, 414.
Oshima, Zembei, 266.
Osteitis fibrosa, Generalized, I. S. Hirsch, 505.
Osteo-arthritis, 29.
Osteochondritis dissecans, G. E. Richards (abstract), 271.
Osteoma of frontal sinus: report of 2 cases, Robin Harris (abstract), 531.
Osteomyelitis, chronic, Regarding X-ray therapy of acute recurrence of, Max Sgalitzer (abstract), 263.
Osteomyelitis of orbital plate, Brain abscess in frontal lobe resulting from acute frontal sinusitis and, F. M. Brandt (abstract), 434.
Otto (cited by H. P. Doub), 369, 375.
Ovaries and hypophysis, Clinical and experimental studies of low dosage irradiation of, in menstrual disorders, F. A. Ford and D. G. Drips, 393.
Ovaries, irradiation of, New observations regarding question of injury to offspring following, W. Schmitt (abstract), 459.
Ovary, papillary cystadenoma of, Value of radiation therapy in post-operative treatment of, W. A. N. Dorland, 419.

Pack, George T., 272, 366, 436, 443.
Packard, Charles, 259, 467, 470.
Packard, F. A., 514.
Page (cited by L. G. Cole), 50.
Paget, Sir James, 505-508, 514, 515.
Paget's disease. *See* Osteitis fibrosa, Generalized.
Pain, relief of, 27 *et seq.*
Pain, Treatment of, in carcinoma of cervix uteri, with special reference to stricture of ureter, C. L. Martin (abstract), 274.
Palugyay, J., 258, 387.
Pan-American Medical Association, 75.
Pancoast, Henry K., 74, 160, 165, 386, 422, 455.
Papin (cited by R. P. Potter and W. G. Sexton), 200.
Paresthesias of tongue, 29, 31.
Parham metal bands for fractures, 218.
Parker, G. H., 259.
Parkes, A. S., 400, 402.
Parry (cited by I. S. Hirsch), 505.
Patterson Screen Company, 172.

Pauli, W. E., 269.
Payr, E., 81, 422.
Payr, sphincter of, 484, 488, 494.
Payr and Strauss, sphincter of, 487.
Pazzi (cited by R. Balli), 488.
Peck (cited by L. G. Cole), 48.
Peirce, E. G., 236.
Pelton, H. A., 451.
Pelvic infections, Rôle of radiation therapy in, A. Soiland, W. E. Costolow, and O. N. Meland, 230.
Pelvic inflammatory diseases, Roentgen therapy in, H. Kamniker and St. Simon (abstract), 531.
Pelvic lesions, Complications following application of radium to, L. J. Stacy (abstract), 272.
Pelvis, Fractures of, W. H. Gilmore, 345.
Pemberton, Ralph, Nature of arthritis, with consideration of *rationale* underlying some forms of physiotherapy useful in this disease, 235.
Pemphigus neonatorum, Note on ultra-violet radiation in treatment of, A. W. Gregorson (abstract), 270.
Pendergrass, E. P., 422, 528.
Penfield, W., 148.
Penkava, Jos., 367.
Pennington, W. E., 449.
Pericardium, effect of iodized oils on, 499-504.
Peritonitis, tuberculous, 30, 31, 136.
Peritz, Georg, 193, 197.
Perkins, E. L., 67.
Perthings, 50.
Perutz, Alfred, 534.
Peterson, C. A., 122, 125, 198.
Petrous ridge deformation in roentgen-ray diagnosis and localization of brain tumors, Significance of, Henry K. Pancoast (abstract), 455.
Petsing, Harold, 166.
Pfahler, George E., 23, 140, 308, 319, 321, 326, 408, 448, 533.
Pfender, C. A., 27, 32.
Pfund, A. H., 330, 336, 340.
Phemister, D. B., 374, 375.
Phillips, H. B., 421, 422.
Phleboliths, J. R. Dillon and B. A. Cody (abstract), 179.
Photometer of Wintz and Rump, Dosimetry of "borderline rays" with, O. Glasser and I. E. Beasley (abstract), 86.
Physiotherapy following fracture, 247, 248.
Physiotherapy useful in arthritis, 235.
Picker X-ray Corporation, 172.
Pierce, H. J., 449.
Pieri (cited by R. Balli), 488.
Pierquin, J., 443.
Pilcher, Lewis S., 205.
Pinch, A. E. Hayward, 421, 422.
Pineas, H., 499, 504.
Pinkus (cited by B. F. Schreiner), 127.
Pirie, A. Howard, 89.
Platinum as filter, 93 *et seq.*, 439.
Pleurisy in children, 385.
Pneumonia in children, 384.
Pneumoperitoneum, iodized oil and, combined; Roentgen diagnosis in gynecology, I. F. Stein and R. A. Arens, 341.
Pneumothorax, spontaneous, Massive (atelectatic) collapse of lung: report of case showing associated, L. R. Sante (abstract), 527.
Pohl (cited by H. Holthusen), 39.
Pohle, Ernst A., 85, 86, 88-92, 150, 176, 178, 179, 181, 182, 263-271, 274, 277-279, 282, 309-316 (original paper), 324, 326, 327, 330, 340, 365-368, 381, 387, 392, 455-459, 528, 529, 531-535.
Polak, John A., 435.
Polak, John O., 407, 408.
Policard (cited by I. S. Hirsch), 507.
Politzer, Georg, 42, 258.
Polkey, Hugh J., 205.
Polyposis, Gastric: report of 2 cases, with review of literature, A. A. Strauss, J. Meyer, and A. Bloom (abstract), 267.
Polyradiotherapy in dermatology, W. I. LeFevre, 136.
Pomeranz, M. M., 370, 375, 418.
Pommer (cited by I. S. Hirsch), 508.
Poole (cited by L. G. Cole), 54.
Pordes, Fritz, 230, 257, 381.
Porphyrin, 368.
Portmann, U. V., 282, 316, 317, 321, 327.
Portmann, U. V., and Glasser, Otto, Reliability of r-unit for measurement of roentgen and radium radiation (original paper), 317. *See other references.*
Positions for examination of sinuses, 6.
Pottenger, F. M., 181.
Potter, R. P., 199, 210.
Potter, R. P., and Sexton, W. G., Anomalies of ureters and kidney pelves (original paper), 199. *See other reference.*
Powell, Ralph E., 455.
Powers, Robert A., 267.
Pregnancy, Carcinoma of cervix during, with consideration of question of injury to offspring by irradiation, R. Zimmermann (abstract), 181.
Presser, Karl, 258.
Priapismus in leukemia, Roentgen therapy of, Paul Krause (abstract), 527.
Priesel, Richard, 257.
Primrose, A. C., 429.
Prince, M., 505.
Proetz, A. W., 10, 15, 22-24.
Proetz, position, 10, 11.
Prostate, hypertrophy of, Experience with X-ray therapy of, R. Oppenheimer (abstract), 532.
Protection, X-ray and radium, 519.
Proteins, irradiated, Physicochemical investigations of (III. Contribution concerning determination of light coagulation velocity of number of proteins), M. Spiegel-Adolf (abstract), 264.
Pruritus, senile, On new treatment method of, J. Borak (abstract), 273.
Prym, P., 81.
"Pseudoleukemia," 127.
Psoriasis, Treatment of, with intravenous trypaflavine injections and quartz light, M. Oppenheim (abstract), 367.
Putnam, Tracy J., 114, 124.
Putti metal bands for fractures, 218.
Pybus, F. C., 193, 197.
Pyelography: errors in technic and interpretation, M. B. Wesson (abstract), 532.
Pyloric pathology, acute, Failure of cholecystographic filling in presence of, E. H. Skinner, I. H. Lockwood, and E. R. Dweese (abstract), 366.
Pyrheliometry, 339.

Quain (cited by R. Balli), 484.
Quartz plates in ultra-violet region, Biologic investigations on influence of dust and dirt on transparency of, Z. Oshima (abstract) 266.

Quick, Douglas, 45, 93, 327.
Quigley, D. T., 165, 448, 449.
Quimby, Edith H., 45, 94, 321, 323, 327, 448.
Quinn, C. E., 449.

R-unit, absolute, Comparison of, with French R-unit, H. Walch, D. den Hoed, and L. J. Koopman (abstract), 392.
R-unit and Sabouraud unit, Relation between, L. Grebe and W. Bickenbach (abstract), 90.
r-unit, Reliability of, for measurement of roentgen and radium radiation, Otto Glasser and U. V. Portmann, 317.
R-units, to measure, by *Drosophila* egg method, 461 *et seq.*
Radiant energy, Measurement and specification of, Henry Laurens and H. S. Mayerson, 328.
Radiation effect, Skin erythema dose as biological unit of, K. W. Hausser and E. Schlechter (abstract), 89.
Radiation effects on systemic aleukemic lymphomatosis: report of four cases, B. F. Schreiner, 127.
Radiation therapy in pelvic infections, Rôle of, A. Soiland, W. E. Costolow, and O. N. Meland, 230.
Radiation therapy in post-operative treatment of papillary cystadenoma of ovary, Value of, W. A. N. Dorland, 419.
Radiation therapy of pelvic inflammatory diseases, H. Kamniker and St. Simon (abstract), 531.
Radiation therapy of warts, S. Brünauer (abstract), 268.
Radiation therapy, Physical factors in, and their clinical application, J. L. Weatherwax and B. P. Widmann, 297.
Radio-biologic investigations on eggs of Ascaris, A. Zuppinger (abstract), 454.
Radiographscope Company, 173.
Radiologists, Report analyzing results of questionnaire sent out to, under direction of Sex Committee of National Research Council, P. M. Hickey and E. W. Hall (abstract), 87.
Radiology, Place of, in undergraduate medical curriculum (editorial), C. C. Bass, 69.
Radiology, Section on, American Medical Association, 519.
Radiology, terms used in, 160.
Radiometry, 330.
Radiotherapy, Case management in, Margaret Hoing, 249.
Radiotherapy of genital tuberculosis in women, Regarding, G. A. Wagner (abstract), 456.
Radium and X-ray protection, 519.
Radium and roentgen radiation, Reliability of r-unit for measurement of, Otto Glasser and U. V. Portmann, 317.
Radium and roentgen-ray treatment of plantar warts, H. H. Hazen (abstract), 270.
Radium and X-ray treatment of carcinoma of cervix, Standardization of, W. S. Lawrence, 429.
Radium, application of, to pelvic lesions, Complications following, L. J. Stacy (abstract), 272.
Radium, applications of heavily filtered, External distance (editorial), Curtis F. Burnam, 157.
Radium applicator, use of: Regaud's technic in cervical cancer, H. Swanberg, 435.
Radium, fibroids treated by, 180.
Radium hemolysis, On knowledge of, I. Yamasaki (abstract), 264.
Radium in dermatology, 136.
Radium Institute, London, 421.
Radium Institute of University of Paris, 424, 429, 430, 435.
Radium Institute of University of Paris, Management of uterine malignancies at, G. T. Pack (abstract), 272.
Radium "seed" therapy, 45.
Radium sensitivity of actinomyces, E. Ingber (abstract), 88.
Radium shipments, Unprotected, E. G. C. Williams, 449.
Radium, terms applicable to, 162.
Radium therapy in cancer (abstract), 368.
Radium therapy of Basedow's disease, F. Gudzent (abstract), 381.
Radium treatment of certain types of metabolic diseases in connection with special diet, M. Heiner (abstract), 457.
Radium treatment of tonsils and other lymphoid tissue in throat, F. H. Williams (abstract), 457.
Radium treatment of vesical carcinoma, A. C. Morson (abstract), 264.
Radium, to measure, with *Drosophila* egg method, 464, 469.
Radiumhemmet, Stockholm, 76-78.
Radon implants, Comparative notes on, Albert Soiland, W. E. Costolow, and O. N. Meland, 45.
Radon seeds, gold-filtered, Use of, James J. Duffy, 93.
Radon, Study of resistance to tumor re-implantation in rats cured of cancer by, K. Sugiura and S. R. Benedict (abstract), 178.
Railsback, O. C., 58.
Rajewsky, B., 274.
Ranson, John R., 448.
Rappleye, W. C., 73.
Rathbun, N. P., 206.
Ray, Henry M., 360.
Rays, borderline. *See under* Grenz rays.
von Recklinghausen, F., 505-509.
von Recklinghausen's disease. *See* Osteitis fibrosa, Generalized.
Records, Treatment, John F. Herrick, 62.
Regaud, C., 42, 140, 272, 321, 426, 435, 436, 438, 440-446.
Regaud's technic in cervical cancer: use of new radium applicator, H. Swanberg, 435.
Reid, G. E., 450, 451.
Reinberg, S. A., 116, 125.
Reinhard, M. C., 151.
Reisman (cited by P. R. Casellas), 385.
Reiss (cited by R. Balli), 494.
Reither (cited by H. Holthusen), 39.
Rejsek, Joseph, 206.
Respiratory disease to sinus infections, Relation of, R. W. Knight (abstract), 91.
Reverchon, L., 21, 23.
Reyfus (cited by W. T. Bronson), 225.
Rheumatic lung, A. E. Naish (abstract), 267.
Ribs, Erosion of, due to stenosis of isthmus (coarctation) of aorta, O. C. Railsback and William Dock, 58.
Richard, G., 443.

Richard, Jules, 339.
Richards, G. E., 27, 32, 271, 450, 451.
Richards, Mrs. G. E., 451.
Richardson, Dalton, 32, 34.
Rickets. *See* Osteitis fibrosa, Generalized.
von Ries, Julius, 392.
Robbins, W. J., 259.
Robineau, 122, 126.
Robinson, G. Allen, 449.
Robinson, M. R., 402.
Roederer, C., 193, 194, 197.
Roentgen and radium radiation, Reliability of r-unit for measurement of, Otto Glasser and U. V. Portmann, 317.
Roentgen diagnosis in gynecology: iodized oil and pneumoperitoneum combined, Irving F. Stein and Robert A. Arens, 341.
Roentgen hyposensitivity of skin, Contribution to knowledge of, L. Haas (abstract), 529.
Roentgen irradiation, Further investigations regarding changes of functional stage of blood vessels following, N. W. Lazarew (abstract), 528.
Roentgen rays and electric conductivity, F. Sauter and V. Oberguggenberger (abstract), 89.
Roentgen-ray and radium treatment of plantar warts, H. H. Hazen (abstract), 270.
Roentgen ray as remedy in benign gynecologic disease: summary of 11 years' observation, M. E. Hanks (abstract), 90.
Roentgen rays, Bactericidal effect of, and its dependence upon external factors, W. E. Pauli and E. Sulger (abstract), 269.
Roentgen-ray dose, German unit of, H. Behnken and R. Jaeger (abstract), 89.
Roentgen-ray dose in carcinoma of uterus, expressed in roentgen units, following ionization measurements in vagina, G. K. F. Schultze (abstract), 85.
Roentgen rays, dose unit for, Regarding question of, Herman Behnken (abstract), 150.
Roentgen rays, effect of, on obstipation, Regarding favorable, E. Lenart (abstract), 91.
Roentgen rays, effect of, Studies of biological, H. Cramer (abstract), 90.
Roentgen rays, Energy measurements on, W. Rump (abstract), 87.
Roentgen-ray examination of nasal accessory sinuses, Upright position and vertical radiographic unit for, S. Israel (abstract), 263.
Roentgen rays, increase of effect of, Experiences regarding by dextrocid injections, J. Jacobs (abstract), 270.
Roentgen rays, Influence of, on carbohydrate metabolism of carcinoma of cervix, K. Jaroschka (abstract), 458.
Roentgen rays, influence of, on inflammation, 178.
Roentgen rays, influence of, on vitamin-free food stuff, F. Rost and W. Dieterich (abstract), 182.
Roentgen rays, quality of, Comparative measurements of, John J. Burby and M. W. Barry, 275.
Roentgen rays (2A.), Supersoft, in dermatology, J. J. Eller (abstract), 84.
Roentgen-ray treatment of tuberculosis, genital, in male, J. Palugyay (abstract), 387.
Roentgen-ray treatment of tuberculosis of eye, G. Herrnheiser (abstract), 387.
Roentgen rays, Which type of pointed condyloma should be treated by? R. O. Stein (abstract), 271.
Roentgen ray. *See also* X-ray.
Roentgen spectrum, continuous, Influence of electrical form of discharge upon energy distribution within, D. Nasledow and T. Kacura (abstract), 88.
Roentgen therapy as applied to deep-seated malignant disease, Further observations on saturation method in, G. E. Pfahler (abstract), 533.
Roentgen therapy, Biological aspects of, H. Holthusen, 35.
Roentgen therapy in fibromyomata and other benign gynecologic cases: clinical report of 12 years' experience, M. E. Hanks, 403.
Roentgen-ray therapy in primary malignant tumors and benign giant-cell tumor of bone, Value of, W. A. Evans and T. Leucutia (abstract), 528.
Roentgen therapy of Basedow's disease, G. Holzknecht (abstract), 381.
Roentgen therapy of Basedow's disease, G. Schwarz (abstract), 381.
Roentgen therapy of gliomas of brain, Percival Bailey, M. C. Sosman, and A. Van Dessel (abstract), 266.
Roentgen therapy of priapismus in leukemia, Paul Krause (abstract), 527.
Roentgen units, Calibration of Sabouraud-Noire dosimeter in, and its usefulness in practical dosimetry, H. Th. Schreus (abstract), 366.
Roentgen units, Skin toleration doses in, and their relation to quality of radiation, P. M. Hickey, E. A. Pohle, G. A. Lindsay, and John M. Barnes, 309.
Roentgen, Wilhelm, 294, 414.
Roentgenogram in mastoid disease, H. K. Taylor (abstract), 126.
Roentgenograms of abdominal viscera, Some results of study of, R. O. Moody and R. G. Van Nuys (abstract), 531.
Roentgenological aid in diagnosis of ileus, J. T. Case (abstract), 268.
Roentgenologic consideration of duodenitis, B. R. Kirklin, 377.
Roentgenologic diagnosis of anencephalus (case report), N. J. Nessa, 66.
Roentgenologic manifestations in 87 cases of gastric syphilis, A. B. Moore and R. Aurelius (abstract), 269.
Roentgenologic study of child's chest, P. R. Casellas, 382.
Roentgenology, Foundations in (editorial), C. G. Sutherland, 517.
Roentgenology, Iodized oil in, Lewis J. Friedman, 114.
Roentgenology of colon: value in clinical medicine, J. W. Larimore (abstract), 105.
Roentgenoscopes, vertical, and tube stands, Source of danger in use of, John F. Carty, 496.
Roffo, A. H., 364, 365.
Roger, H., 229.
Rolnick, H. C., 124, 125, 472, 483.
Rolph, A. H., 272, 450, 451.
Rominger, E., 265.
Rose (cited by R. Balli), 484.
Rosenberger, C. J., technician, 14.

Rosenloecher, Karl, 205.
Rosewarne, D. D., 82.
Rösler, Hugo, 258.
Rosner, Josef, 258.
Ross, W. L., 33.
Rossi (cited by R. Balli), 484, 487, 488, 492.
Rossman, 260.
Rost, F., 182.
Roux-Berger, J., 443.
Rubin, I. C., 26.
Rubin test, 119.
Rubner (cited by H. Holthusen), 37.
Ruggles, H. E., 418.
Rump, W., 86-88.
Rump and Wintz, Dosimetry of "borderline rays" with photometer of, O. Glasser and I. E. Beasley (abstract), 86.
Russ (cited by H. Holthusen and F. C. Wood), 44.
Ryle, John A., 225, 228.
Rutherford (cited by R. Balli), 484, 490, 491.

Sabouraud pastilles, 461.
Sabouraud unit and R-unit, Relation between, L. Grebe and W. Bickenbach (abstract), 90.
Sabouraud-Noire dosimeter, Calibration of, in roentgen units and its usefulness in practical dosimetry, H. Th. Schreus (abstract), 366.
Saidman (cited by W. I. LeFevre), 136, 364.
St. Simon, 531.
Sampson (cited by W. I. LeFevre), 138.
Sante, L. R., 24, 211, 212, 261, 448, 527.
Sarcoma of prostate gland, R. E. Powell (abstract), 455.
Sarcoma of tongue, Radiation treatment of, A. Simons (abstract), 179.
Sargent, James C., Interpretation of seminal vesiculogram, 472.
Saturation method, 297 *et seq.;* 319-321, 326, 533.
Saturation method in roentgen therapy as applied to deep-seated malignant disease, Further observations on, G. E. Pfahler (abstract), 533.
Saupe, E., 369, 374, 375.
Sauter, Fritz, 9.
Schaef, H. E., 451.
Schaefer, S. W., 89.
Schaffer, H., 365.
Schall, L., 311, 316.
Scharnagel, Isabel, 366.
Schilf, E., 365.
Schinz, H. R., 42, 81.
Schirmer, A., 343, 344.
Schlagenhaufer (cited by H. P. Doub), 369, 375.
Schlatter, C., 414, 416.
Schlatter's disease. *See* Osgood-Schlatter's disease.
Schlechter, E., 89.
Schmidhuber, K., 81.
Schmidt, E. A., 122, 125.
Schmidt, M. B., 505.
Schmitt, Walther, 459.
Schmitz, Henry, 33, 34, 154, 165, 272, 319, 364, 409, 423, 427, 428, 435, 443, 448, 449.
Schmitz, Herbert E., 165.
Schneider, Herman, 259.
Schneider, P., 125.
Schoenhof, Clara, 400, 402.
Scholl, A. J., 206.
Schreiner, Bernard F., Radiation effects on systemic aleukemic lymphomatosis: report of four cases, 127.
Schreus, H., 81.
Schreus, H. Th., 366.
Schüller, Artur, 258.
Schultze, Günter K. F., 85.
Schwartz (cited by W. A. N. Dorland), 419.
Schwartz, Virgil J., 457.
Schwarz, G., 381.
Scott, G. D., 449.
Scudder, C. L., 216, 223.
Seemann and his spectrograph, 277.
Seitz, V. B., 319.
Selenium cell, 461.
Seminal vesiculogram, Interpretation of, James C. Sargent, 472.
Septum, bony nasal, and crista galli, Rare or hitherto unrecorded cavity with fluid in, V. J. Schwartz (abstract), 457.
Sex Committee of National Research Council, Report analyzing results of questionnaire sent out to radiologists, under direction of, P. M. Hickey and E. W. Hall (abstract), 87.
Sexton, W. G., 199, 206, 210.
Sgalitzer, Max, 257, 263.
Shannon, E. H., 450.
Sharpe, W., 122, 125, 198.
Sheard, C., 339, 340.
Sheehan, J. Eastman, 17.
Sheldon, F. B., 267, 457, 533.
Sherman, W. O., 216, 218, 223.
Sherwood (cited by W. A. N. Dorland), 419.
Shoudy (cited by W. L. Estes), 247.
Sicard, J. A., 1, 23, 82, 114, 124, 149, 194, 198, 499, 504.
Sigmond, H. W., 449.
Silbert, S., 147, 148.
Simon, Herman, 408.
Simons, Albert, 179.
Singer, Charles, 175.
Singleton, A. C., 450, 451.
Sinus diseases, Ocular involvement in, E. S. Thomson (abstract), 268.
Sinus, frontal, Osteoma of: report of two cases, Robin Harris (abstract), 531.
Sinus infection in children, 385, 386.
Sinus infections to respiratory disease, Relation of, R. W. Knight (abstract), 91.
Sinuses, nasal accessory, Upright position and vertical radiographic unit for roentgen-ray examination of, S. Israel (abstract), 263.
Sinuses, paranasal, Diagnostic uses of lipiodol in, R. H. Fraser, 6.
Sinuses, paranasal, Fluoroscopic examination of: some clinical notes, R. A. Powers (abstract), 267.
Sinusitis, acute frontal, and osteomyelitis of orbital plate, Brain abscess in frontal lobe resulting from, F. H. Brandt (abstract), 434.
Sittenfield, M. J., 443, 448.
Skin cancer, X-ray treatment of, Results in, W. S. Lawrence (abstract), 267.
Skin diseases, radiation of, 460.
Skin diseases, ultra-violet light in, Dosage of, F. Thedering (abstract), 92.
Skin diseases. *See* Dermatology.
Skin, Esophylaxis of, from viewpoint of new light research, A. Memmesheimer (abstract), 533.
Skin, roentgen hyposensitivity of, Contribution to knowledge of, L. Haas (abstract), 529.
Skin toleration doses in roentgen units and their relation to quality of radiation, P. M. Hickey, E. A. Pohle, G. A. Lindsay, and J. M. Barnes, 309.
Skinner, Edward H., 366, 449, 525-527.
Slotopolsky (cited by H. Holthusen), 42.
Sluys, F., 267, 364.
Smith, C. W., 168.
Smith, E. B., 194, 198.
Smith, Lester A., 193, 210-213, 233, 449.

Smith, Lester A., and Mertz, H. O., Spina bifida occulta: its relation to dilatations of upper urinary tract and urinary infections in childhood (original paper), 193, 210-213. *See other references.*
Smith, Morris K., 265.
Smithers (cited by L. G. Cole), 49.
Smithies, Frank, 361.
Soiland, Albert, 45, 98, 99, 230, 448.
Soiland, Albert, Costolow, William E., and Meland, Orville N., Comparative notes on radon implants (original paper), 45. *See other references.*
Soiland, Albert, Costolow, William E., and Meland, Orville N., Rôle of radiation therapy in pelvic infections (original paper), 230. *See other references.*
Solomon, 150, 317, 364.
Solomon R-unit, 317, 319, 392.
Sommer, R. F., 278.
Sonnenberg, W., 515.
Sosman, Merrill C., 75, 266.
Soule, Robert E., 418.
South, Osgood-Schlatter's disease in, 414.
Spangaro (cited by R. Balli), 489.
Spangler, D., 66, 67.
Spaulding (cited by W. A. N. Dorland), 419.
Spectra, photographic, Method of graphically evaluating, A. Mutscheller, 388.
Spectrography, 335.
Spectroradiometery, 333.
Sperti, George, 259.
Sphincters of colon, R. Balli, 484.
Spiegler, Gottfried, 258.
Spielberg, William, 115, 125.
Spina bifida occulta: its relation to dilatations of upper urinary tract and urinary infections in childhood, H. O. Mertz and L. A. Smith, 193, 210-213.
Spinelli, M., 364.
Spleen, roentgen study of, 531, 532.
Splenomegaly, Anemic hemolytic—group of symptoms similar to hemolytic icterus, A. Adler (abstract), 86.
Stacy, Leda J., 272, 421, 422, 433.
Stadler, L. J., 259.
Stahel (cited by H. Walch, D. den Hoed, and L. J. Koopman), 392.
Standard X-ray Company, 173.
Stanford University Medical School, 180.
Starling, Ernest H., 228.
Starr, F. N. G., 90.
Stayton, C. A., 449.
Steel, David, 165.
Steele, J. D., 514.
Steenhuis, D. J., 115, 125.
Stein, Irving F., 121, 125, 341 (original paper, with Robert A. Arens).
Stein, R. O., 257, 271.
Steinhausen, W., 365.
Stengel, 100.
Stenholm (cited by I. S. Hirsch), 510.
Stenström, Wilhelm, 323, 470, 471.
Stephens, Richmond, 418.
Sterility in male, 460.
Sterility, treatment for, 393 *et seq.*
Sterling, Helen N., 289, 316.
Stevens, J. Thompson, 423-428, 444-446.
Stevens, J. Thompson, Management of carcinomata of uterine cervix (original paper), 423. *See other reference.*
Stevens, Rollin H., 140, 448, 449.
Stewart, Elizabeth, 450, 451.
Stewart, M. J., 206, 367.
Stierlin (cited by R. Balli), 488.
Stilling, H., 515.
Stock, W., 81.
Stockbarger, D. C., 332, 340.
Stoklasa, Julius, 367.
Stölzner, H., 499, 504.
Stomach, cancer of, Diagnosis of, William Gordon (abstract), 529.
Stomach, Carcinoma of, R. R. Graham (abstract), 91.
Strandberg, O., 328, 340.
Strassman, P., 421, 422.
Strauss, A. A., 267.
Strauss. *See* Payr and Strauss, sphincter of.
Strebel, 294.
Struthers (cited by I. S. Hirsch), 507.
Stumpf, R., 230, 232.
Sucrose, crystalline and dissolved, Effect of X-radiation, M. C. Reinhard and K. L. Tucker, 151.
Sugiura, K., 94, 178.
Sulger, E., 269.
Sutherland, Charles G., Foundations in roentgenology (editorial), 517, 518.
Swan-Myers Company, 173.
Swanberg, H., 165, 435-446.
Swanberg, H., Regaud's technic in cervical cancer: use of new radium applicator, 435. *See other reference.*
Swift, George W., 148.
Syphilis, gastric, Roentgenologic manufestations in 87 cases of, A. B. Moore and R. Aurelius (abstract), 269.

Taft, Robert B., Modifications of electroscopic charging device (original paper), 65. *See other reference.*
Taft, Robert B., Osgood-Schlatter's disease (original paper), 414. *See other reference.*
Talbot, Ernest, 452.
Taussig, F. J., 410.
Taylor, Henry K., 126.
Taylor, J. S., 333, 340.
Taylor, Lauriston S., 289-291, 294-296, 324, 325, 524.
Taylor, Lauriston S., Cathode ray dosimetry (original paper), 294. *See other references.*
[Teaching] Place of radiology in undergraduate medical curriculum (editorial), C. C. Bass, 69.
Technicians, American Association of Radiological, 156.
Technicians, training, examination, and duties of, 249 *et seq.*
Telford, E. D., 505.
Temin, M., 522.
Temperature, elevated, use of lipiodol in presence of, 3, 4.
Tennent, D. H., 259.
Thayer, W. D., 278.
Thedering, Franz, 92.
Theodor, Ludwig, 230, 232.
Thibierge, G., 515.
Thomas, R. A., 451.
Thomason, T. H., 88.
Thompson (cited by M. C. Reinhard and K. L. Tucker), 153.
Thomson, Edgar S., 268.
Throat, lymphoid tissue in, Radium treatment of tonsils and other, F. H. Williams (abstract), 457.
Thymus, examination of children for, 382, 385, 386.
Thyroid disease. *See* Basedow's disease.
Thyroid, substernal, 382.
Thyrotoxicoses, Oligosymptomatic, and their X-ray treatment, F. Pordes (abstract), 381.
Tic douloureux, 27.
Tillaux (cited by R. Balli), 484, 494.

Tisdall, F. F., 271.
Toldt (cited by R. Balli), 490.
Tongue, paresthesias of, 29, 31.
Tongue, sarcoma of, Radiation treatment of, A. Simons (abstract), 179.
Tonsils, Radium treatment of, and other lymphoid tissue in throat, F. H. Williams (abstract), 457.
Tovell, H. M., 450, 451.
Treatment records, John F. Herrick, 62.
Trostler, I. S., 82, 365, 409, 450, 452.
Trypaflavine injections, intravenous, and quartz light, Treatment of psoriasis with, M. Oppenheim (abstract), 367.
Tube, gas, 137.
Tube stands, vertical roentgenoscopes and, Source of danger in use of, John R. Carty, 496.
Tuberculosis in children, 34.
Tuberculosis, genital, in male, Roentgen-ray treatment of, J. Palugyay (abstract), 387.
Tuberculosis, genital, in women, Regarding radiotherapy of, G. A. Wagner (abstract), 456.
Tuberculosis of eye, Roentgen-ray treatment of, G. Herrnheiser (abstract), 387.
Tuberculosis, pulmonary, Destruction and healing in, as shown in serial X-ray films, S. W. Schaefer (abstract), 89.
Tuberculosis, pulmonary, lipiodol in, 3, 4.
Tuberculosis, renal, Non-surgical, Robert Gutierrez (abstract), 455.
Tuberculous infection of childhood, Regarding the first, E. Rominger (abstract), 265.
Tuberculous involvement of right lung, Frequency of, as determined by physical examination and X-ray findings, L. M. Hines (abstract), 84.
Tucker, G., 2, 5.
Tucker, K. L., 151.
Tumors, bladder, Physical agents in treatment of, E. Beer (abstract), 84.
Tumor, Giant-cell, of neck of femur (operation, with probable cure), W. G. Turner (abstract), 269.
Tumors in children's chests, 382.
Tumors, malignant, Value of roentgen-ray therapy in primary, and benign giant-cell tumor of bone, W. A. Evans and T. Leucutia (abstract), 528.
Tumors, renal, Differential diagnosis of, D. F. Braasch (abstract), 179.
Tumors, X-ray treatment for pain-relief from, 32.
Tumors. *See* Roentgenology, Foundations in.
Tumors, bone. *See* Osteitis fibrosa, Generalized.
Turnbull, Arthur, 525.
Turner, W. G., 269.
Tuttle, H. A., 156.
Tuve, M. A., 452.
Tyndall, E. P. T., 340.

Ulcer, duodenal, Advance of diagnosis in relation to, R. W. McQuay (abstract), 532.
Ulcer, gastric and duodenal, Statistical study of clinical and laboratory findings in, with special reference to roentgenologic data, T. G. Miller, E. P. Pendergrass, and K. S. Andrews (abstract), 528.
Ulcer, gastric, Malignancy of, Lewis Gregory Cole, 48.
Ulcer, gastric, Relationship of, to gastric carcinoma, M. R. Hoon and J. D. Garvin, 358.
Ulcers, Jejunal and gastro-jejunal, A. F. Hurst and M. J. Stewart (abstract), 367.
Ulcer, jejunal, Post-operative, N. M. Allen (abstract), 367.
Ulcer, Peptic, of esophagus, J. Friedenwald, M. Feldman, and W. F. Zinn (abstract), 458.
Ulcer, Rodent, A. H. Pirie (abstract), 89.
Ulcers, roentgen-ray, Cure of, by subaqueous heat douches, K. Hoffner (abstract), 92.
Ulcers of small intestine, Multiple superficial, K. Kanagarayer (abstract), 268.
Ullmann, H. J., 264, 270, 323, 411, 448, 454, 470, 471, 531.
Ulrich, K., 81.
Ultra-violet light in skin diseases, Dosage of, F. Tedering (abstract), 92.
Ultra-violet light. *See* Radiant energy, Measurement and specification of, Henry Laurens and H. S. Mayerson.
Ultra-violet radiation in treatment of pephigus neonatorum, A. W. Gregorson (abstract), 270.
Ultra-violet rays, Physiological action of, A. Loewy (abstract), 176.
Ultra-violet rays, Practical measuring instrument for dosage of, B. Rajewsky (abstract), 274.
Ultra-violet region, quartz plates in, Biologic investigations on influence of dust and dirt on transparency of, Z. Oshima (abstract), 266.
Ultra-violet region, transparency of window glass and quartz in, On influence of dust and dirt on, W. Hausmann and O. Krumpel (abstract), 179.
Ultra-violet transmitting glass, C. Dorno (abstract), 177.
Ultravit glass, 177.
University of Pennsylvania, Gynecological Department, 234.
Upson, W. O., 14, 26, 68.
Uranium, Biology of, J. Stoklasa, J. Penkava, *et al.* (abstract), 367.
Ureters and kidney pelves, Anomalies of, R. P. Potter and W. G. Sexton, 199, 210.
Ureter, stricture of, Treatment of pain in carcinoma of cervix uteri, with special reference to, C. L. Martin (abstract), 274.
Ureteral stricture, Roentgenologic diagnosis of, W. F. Braasch, 183, 210.
[Uterine] Cervical cancer, Regaud's technic in: use of new radium applicator, H. Swanberg, 435.
[Uterine] Cervix, Carcinoma of (editorial), W. S. Lawrence, 447.
[Uterine] Cervix, carcinoma of, On influence of roentgen rays on carbohydrate metabolism of, K. Jaroschka (abstract), 458.
Uterine cervix, carcinomata of, Management of, J. T. Stevens, 423.
[Uterine] Cervix, carcinoma of, Standardization of X-ray and radium treatment of, W. S. Lawrence, 429.
Uterine hemorrhage and its treatment, T. S. Cullen (abstract), 459.
Uterine malignancies, Management of, at Radium Institute of University of Paris, G. T. Pack (abstract), 272.
Uterus, carcinoma of. *See under* Carcinoma.

Vahle, 38, 178.
Valentine (cited by H. P. Doub), 369, 375.
Van Buskirk, E. M., 449.
Van der Hoeve, J., 115, 125.
Van Dessel, Arthur, 266.
Van Neck, M., 418.
Van Nuys, Roscoe G., 531.
Vaquez, H., 61.
Varolius, Sphincter of, 484, 485, 490-492, 494, 495.
Ventricular system, radiography of, 142.
Ventriculograms, Intracranial studies by, W. R. Bethea, 142.
Verbrugge, J., 206.
Verne, J., 114, 125.
Vesiculogram, seminal, Interpretation of, James C. Sargent, 472.

Victor X-ray Corporation, 173.
Victoreen Instrument Company, 174.
Vidrine, A., Charity Hospital, New Orleans, 160.
Vienna Faculty of Medicine Courses, 254.
Virchow, R., 505, 507.
Viscera, abdominal, Some results of study of roentgenograms of, R. O. Moody and R. G. Van Nuys (abstract), 531.
Vita glass, 177.
Vogel (cited by I. S. Hirsch), 515.
Vogt, 168.
Vogt, M. E., 421, 422.

Wagner, G. A., 400, 402, 456.
Waite & Bartlett Mfg. Co., 174.
Walch, H., 392.
Waldron, Carl W., 23.
Walker, J. B., 247.
Walkey, A. E., 450.
Wallhouser, Andrew, 360.
Walsh, E. L., joint author with Crandall, L. A., 499.
Walshe, W. H., 58, 60, 61.
Walthard (cited by W. A. N. Dorland), 421, 422.
Walther, Henry W. E., 206.
Wappler Electric Company, 174.
War, fracture treatment in, 215, 221, 247.
Waring (cited by W. W. Wasson), 385.
Warren, Richard, 270.
Warts, plantar, Roentgen-ray and radium treatment of, H. H. Hazen (abstract), 270.
Warts, Radiation therapy of, S. Brünauer (abstract), 268.
Wasson, W. W., 165, 385.
Waters, C. A., 23, 524.
Waters position, 6.
Watkins, W. Warner, 84, 88, 89, 160, 165, 177, 179, 180, 182, 263, 268, 269, 273.
Watson, W. T., 516.
Weatherwax, J. L., 74, 165, 297-308, 319-321, 323, 324, 326.
Weatherwax, J. L., and Widmann, B. P., Physical factors in radiation therapy and their clinical application (original paper), 397. *See other references under both names.*
Weber, T. P., 61.
Weil, A., 504.
Weil, Moriz 9, 21, 23.
Weinstein, Alexander, 259.
Weiser, M., 81.
Weiskotten, H. G., 69.
Weiss, Julius, 257.
Wellbrock, W. L. A., 377, 378, 380.
Wertheim operation, 154.
Wessler, H., 182.
Wesson, Miley B., 532.
West, 193 (cited by H. O. Metz and L. A. Smith), 197.
Wetterer, J., 364.
Wheeler, Theodora, 193, 197.
Whitaker, Lester R., 168.
White, Franklin W., 361.
White, Paul D., 177.
Whiting, P. H., 259.
Whitney, W. R., 80.
Whyte, Bruce, 123, 126.
Widmann, Bernard P., 74, 165, 297-308 (original paper, with J. L. Weatherwax), 319, 320, 326.
Wiel (cited by W. A. N. Dorland), 419.
v. Wieser, Wolfgang F., 261.
Wilks (cited by I. S. Hirsch), 505.
Willetts (cited by N. J. Nessa) 66.
Williams, Alden, 165.
Williams, E. G. C., 450.
Williams, Francis H., 457.
Wilmoth (cited by H. O. Mertz and L. A. Smith), 194, 198.
Wilson (cited by L. G. Cole), 49.
Windaus (cited by H. Holthusen), 39.
Wintz and Rump, Dosimetry of "borderline rays" with photometer of, O. Glasser and I. E. Beasley (abstract), 86.
Withers, Sanford, 99, 448, 449.
Wolf, Harry, 168.
Wolfsohn (cited by H. P. Doub), 369, 375.
Wolfsohn, J. M., 122, 126.
Wollenberg (cited by R. Pemberton), 236.
Wollstein, M., 204.
Woltman, H. W., 193, 197.
Wood, E. H., 498.
Wood, Francis Carter, 43, 44, 323, 421, 422, 448, 461-471 (original paper).
Wood, Francis Carter, Biological Ionization Chamber (original paper), 461. *See other references.*
Woodruff, L. L., 259.
Worms, G., 21, 23.
Wrede (cited by H. P. Doub), 369, 375.
Wright, Burnett W., 192.
Wucherpfennig, V., 309, 316.
Wunderlich, 127.
Wurzburg, University of, statistics from gynecological clinic of, 459.

X-radiation on crystalline and dissolved sucrose, Effect of, M. C. Reinhard and K. L. Tucker, 151.
X-ray, Analgesic properties of, L. G. Carter, 27.
X-ray and radium protection, 519.
X-ray and radium treatment of carcinoma of cervix, Standardization of, W. S. Lawrence, 429.
X-ray energy, to measure by *Drosophila* egg method, 461 *et seq.*
X-ray films, serial, Destruction and healing in pulmonary tuberculosis as shown in, S. W. Schaefer (abstract), 89.
X-ray findings, Negative (editorial), A. W. Crane, 252-254.
X-ray Measurements, Committee on Standardization of, 275.
X-rays, mechanism of analgesic property of, 27 *et seq.*
X-rays of very long wave length (up to 8 A.), On production, use in radiology, and dosage of, M. A. Dauvillier (abstract), 460.
[X-ray] Potential, filter, half value layer, homogeneity, and depth doses in deep therapy, H. Jacobi and A. Liechti (abstract), 534.
X-ray spectrum, continuous, Quality average of, A. Mutscheller, 283.
X-ray therapy of acute recurrence of chronic osteomyelitis, Regarding, Max Sgalitzer (abstract), 263.
X-ray therapy of hypertrophy of prostate, Experience with, R. Oppenheimer (abstract), 532.
X-ray treatment of oligosymptomatic thyrotoxicoses, F. Pordes (abstract), 381.
X-ray treatment of skin cancer, Results in, W. S. Lawrence (abstract), 267.

Yamasaki, Iwao, 264.
Young, H. H., 200, 206, 524.

Zdansky, Erich, 257.
Zenker, 49.
Zimmermann, Robert, 181.
Zinn, Waitman F., 458.
Zuppinger, A., 454.
Zurich University, Gynecologic Institute of, 427, 428.
Zweifel (Leipzig), 422.
Zwicker (cited by H. P. Doub), 369, 375.